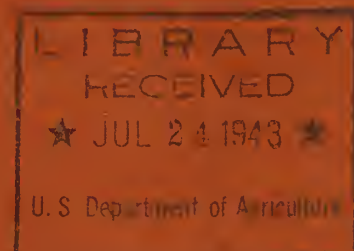


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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF AGRICULTURAL CHEMISTRY AND ENGINEERING



1941 SEMI-ANNUAL

(Supplemental)

NAVAL STORES REPORT

on

Production, Distribution, Consumption and Stocks

of

TURPENTINE AND ROSIN

of the

UNITED STATES

By Crop Years

April 1, 1941 - Sept. 30, 1941

Issued December 5, 1941

Compiled by

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CORRECTION

The figure for production of sulphate wood turpentine, Table 5a, p.5, should be increased by 6,947 barrels. This will necessitate a similar change in Production, Available supply, Apparent total consumption and Apparent U. S. consumption, table 1a, page 1, and in Apparent U. S. Consumption and Not accounted for, in table 12a, page 9.

FOREWORD

This is a supplement to the sixth semi-annual naval stores report on production, consumption and stocks of naval stores.

If the production figures for the half-year are used as a basis for estimating this season's probable total production, the fact that gum naval stores production is seasonal should be borne in mind. Normally, approximately 72 percent of the total annual gum crop is produced from the beginning of April to the end of September. This year unusual weather conditions apparently have affected this percentage for gum naval stores production, and it is generally accepted by the naval stores industry that the 1941-42 season will close earlier than usual. Wood naval stores production, on the other hand, is not seasonal, but is based largely upon probable consumer demand.

As in previous reports, carryover (stocks) of turpentine and rosin is separated into gum and wood products. Stocks of wood rosin do not include so-called "B wood rosin." While sulphate wood turpentine is carried in the regular production and carryover tables, data on "liquid rosin" are in a table separate from gum and wood rosins. Pending the selection of a proper term, we continue to refer to the mixture of resin and fatty acids recovered from the acidulated soap curds obtained in the production of sulphate pulp as "liquid rosin." The term "sulphate wood rosin" refers to the resin acids constituting approximately 42 percent of "liquid rosin."

The data on production, consumption and stocks are expressed in commercial units: For turpentine --- barrels of 50 gage gallons; and for rosin --- barrels of approximately 500 pounds gross weight. Carryover (stocks) figures do not include gum and wood turpentine producible from crude gum and crude steam distilled or destructively distilled wood turpentine on hand.

Statistics on foreign production, stocks and exports have been omitted from this issue due to lack of complete and accurate data.

These reports are designed to be of use to the industry --- producer, factor, distributor and consumer. Every effort is made to obtain complete and accurate information but the responsibility for completeness, accuracy and promptness of issue depends upon the cooperation of those reporting. In studying the data given in this, as well as in the previous reports, it should be borne in mind that the Bureau of Agricultural Chemistry and Engineering merely assembles the figures from the individual reports received.

The date of issue reflects the promptness of receipt of reports. It is our hope that these reports can be issued within 30 days after the end of the six-month period to which they apply.

The Bureau of Agricultural Chemistry and Engineering extends its thanks to those producers, factors, distributors and consumers who have so kindly cooperated in furnishing the requested reports. The Bureau is particularly grateful for the continued cooperation and constructive comment of Mr. J. E. Lockwood.

SUMMARY OF TURPENTINE

SUPPLY, DISTRIBUTION AND CARRYOVER (Bbls. 50 gals.)
(By naval stores seasons, beginning Apr. 1 and ending Mar. 31)

1941-42 1940-41
6 mos. (Apr. - Sept.) 6 mos. (Apr. - Sept.)

Total Gum Wood Total Gum Wood

TABLE 1a - SUPPLY AND DISTRIBUTION

U.S. Carryover						
Apr. 1 ¹	209,910	146,735	63,175	220,267	167,943	52,324
Production ²	307,173	194,915	112,258	350,192	247,497	102,695
Imports ³	<u>7,571</u>	<u>7,571</u>	<u>---</u>	<u>11,008</u>	<u>11,008</u>	<u>---</u>
Available Supply	524,654	349,221	175,433	581,467	426,448	155,019
Less Carryover						
Sept. 30 ⁴	<u>170,027</u>	<u>124,994</u>	<u>45,033</u>	<u>247,539</u>	<u>198,330</u>	<u>49,209</u>
Appar. Total Con-						
sumption	354,627	224,227	130,400	333,928	228,118	105,810
Less Exports ⁵	<u>47,319</u>	<u>30,179</u>	<u>17,140</u>	<u>67,742</u>	<u>53,207</u>	<u>14,535</u>
Appar. U.S. Con-						
sumption	307,308	194,048	113,260	266,186	174,911	91,275

TABLE 2a - CARRYOVER (Stocks)

U.S. Carryover,						
Apr. 1	209,910	146,735	63,175	220,267	167,943	52,324
U.S. Carryover,						
Sept. 30	<u>170,027</u>	<u>124,994</u>	<u>45,033</u>	<u>247,539</u>	<u>198,330</u>	<u>49,209</u>
Increase				27,272	30,387	---
Decrease	39,883	21,741	18,142			3,115

(1) Table 1a, 1940-41 Annual Naval Stores Report

(2) Table 5a

(3) Table 7.

(4) Table 4a

(5) Table 9a - 11a.

SUMMARY OF ROSIN

SUPPLY, DISTRIBUTION AND CARRYOVER (Bbls. 500 lbs. gross)
(By naval stores seasons, beginning Apr. 1 and ending Mar. 31)

<u>1941-42</u>			<u>1940-41</u>		
<u>6 Mos. (Apr.-Sept.)</u>			<u>6 mos. (Apr.-Sept.)</u>		
<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>

Table 1b - SUPPLY AND DISTRIBUTION

U.S. Carryover						
April 1 ¹	1,874,160	1,653,235	220,925	1,569,396	1,409,649	159,747
Production ²	1,223,802 ⁴	662,417 ⁴	561,385	1,296,119 ⁴	819,992 ⁴	476,127
Imports ³	<u>1,426</u>	<u>1,426</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Available Supply	3,099,388	2,317,078	782,310	2,865,515	2,229,641	635,874
Less Carryover						
Sept. 30	<u>1,784,828</u>	<u>1,623,693</u>	<u>161,135</u>	<u>1,838,945</u>	<u>1,650,137</u>	<u>188,808</u>
Appar. Total Consumption	1,314,560	693,385	621,175	1,026,570	579,504	447,066
Less Exports ⁵	<u>260,380</u>	<u>139,265</u>	<u>121,115</u>	<u>305,789</u>	<u>175,110</u>	<u>130,679</u>
Appar. U. S. Consumption	1,054,180	554,120	500,060	720,781	404,394	316,387

Table 2b - CARRYOVER (STOCKS)

U.S. Carryover						
Apr. 1	1,874,160	1,653,235	220,925	1,569,396	1,409,649	159,747
U. S. Carryover						
Sept. 30	<u>1,784,828</u>	<u>1,623,693</u>	<u>161,135</u>	<u>1,838,945</u>	<u>1,650,137</u>	<u>188,808</u>
Increase	---	---	---	269,549	240,488	29,061
Decrease	89,332	29,542	59,790			

(1) Table 1b. 1940-41 Annual Report.

(2) Table 5b.

(3) Table 8.

(4) Includes reclaimed gum rosin.

(5) Tables 9b - 11b.

DETAILS AND SUMMARY OF TURPENTINE CARRYOVER (bbls. 50 gals.)
(At close of Sept. 30)

	<u>1941</u> Sept. 30			<u>1940</u> Sept. 30		
	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
<u>TABLE 3a - DETAILS OF TURPENTINE CARRYOVER</u>						
<u>Production Points</u>						
Gum Stills ¹	14,363	14,363	---	20,320	20,320	---
Wood Plants ¹						
Steam Dist. ²	11,640	---	11,640	22,613	---	22,613
Sulphate	3,231	---	3,231	5,249	---	5,249
Dest. Dist.	<u>48</u>	<u>---</u>	<u>48</u>	<u>492</u>	<u>---</u>	<u>492</u>
Total	29,282	14,363	14,919	48,674	20,320	28,354
<u>Sou. Concent. Points</u>						
Savannah ³	11,033	11,033	---	11,799	11,799	---
Jacksonville ³	12,969	12,969	---	25,607	25,607	---
Pensacola ³	7,383	7,383	---	10,236	10,236	---
Other Sou. Ports	9,517	9,517	---	18,643	18,643	---
Interior Yards	<u>30,587</u>	<u>30,587</u>	<u>---</u>	<u>70,268</u>	<u>70,268</u>	<u>---</u>
Total	71,489	71,489	---	136,553	136,553	---
<u>Distrib. Points</u>						
Eastern	17,916	8,859	9,057	17,739	12,331	5,408
Central	23,542	14,417	9,125	19,978	12,939	7,039
Western	<u>6,821</u>	<u>4,420</u>	<u>2,401</u>	<u>9,788</u>	<u>7,517</u>	<u>2,271</u>
Total ⁴	48,279	27,696	20,583	47,505	32,787	14,718
Industrial Plants ⁵	20,977	11,446	9,531	14,807	8,670	6,137

TABLE 4a - SUMMARY OF TURPENTINE CARRYOVER

Production Points	29,282	14,363	14,919	48,674	20,320	28,354
Sou. Concent. Points	71,489	71,489	---	136,553	136,553	---
Distrib. Points	48,279	27,696	20,583	47,505	32,787	14,718
Industrial Plants	<u>20,977</u>	<u>11,446</u>	<u>9,531</u>	<u>14,807</u>	<u>8,670</u>	<u>6,137</u>
Total in U. S.	170,027	124,994	45,033	247,539	198,330	49,209
At and afloat to London ⁶						

(1) Compiled from reports by producers and factors.

(2) Does not include by-products resulting from making paler grades from FF wood resin.

(3) Official Board of Trade and Chamber of Commerce reports.

(4) Compiled from reports of individual distributors.

(5) Compiled from reports of individual consumers.

(6) Not available.

DETAILS AND SUMMARY OF ROSIN CARRYOVER (Bbls. 500 lbs. gross)

	<u>1941</u> Sept. 30			<u>1940</u> Sept. 30		
	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
<u>TABLE 3b - DETAILS OF ROSIN CARRYOVER</u>						
<u>Production Points</u>						
Gum Still ¹	87,330	87,330	---	60,550	60,550	---
Wood Plants ¹						
Steam Dist. ²	43,591	---	43,591	111,184	---	111,184
Sulphate	---	---	---	777	---	777
Dest. Dist.	---	---	---	---	---	---
Total	130,921	87,330	43,591	172,511	60,550	111,961
<u>Sou. Concent. Points</u>						
Savannah ³	93,991	93,991	---	173,728	173,728	---
Jacksonville ³	306,189	306,189	---	317,776	317,766	---
Pensacola ³	25,744	25,744	---	51,961	51,961	---
Other Sou. Ports	210,212	210,212	---	256,913	256,913	---
Interior Yards	601,550	601,550	---	556,319	556,319	---
Total	1,237,686	1,237,686	---	1,356,697	1,356,697	---
<u>Dist. Points</u>						
Eastern	12,346	5,663	6,683	10,056	4,029	6,027
Central	9,622	4,961	4,661	7,582	3,671	3,911
Western	1,857	1,038	819	1,530	830	700
Total ⁴	23,825	11,662	12,163	19,168	8,530	10,638
<u>Industrial Plants⁵</u>	392,396	287,015	105,381	290,569	224,360	66,209

TABLE 4b - SUMMARY OF ROSIN CARRYOVER (Stocks)

Production Points	130,921	87,330	43,591	172,511	60,550	111,961
Sou. Concent. Points	1,237,686	1,237,686	---	1,356,697	1,356,697	---
Distrib. Points	23,825	11,662	12,163	19,168	8,530	10,638
Industrial Plants	392,396	287,015	105,381	290,569	224,360	66,209
Total in U.S.	1,784,828	1,623,693	161,135	1,838,945	1,650,137	188,808

(1) Compiled from reports by producers and factors.

(2) Does not include by-products resulting from making paler grades from FF wood rosin.

(3) Official Board of Trade and Chamber of Commerce Reports.

(4) Compiled from reports of individual distributors.

(5) Compiled from reports of individual consumers.

DETAILS OF PRODUCTION

(By naval stores seasons, beginning Apr. 1 and ending Mar. 31)

1941-42 1940-41
6 mos. (Apr. - Sept.) 6 mos. (Apr. - Sept.)

Total Gum Wood Total Gum Wood

TABLE 5a - PRODUCTION OF TURPENTINE (Bbls. 50 gals.)

Gum	194,915	194,915	---	247,497	247,497	---
Wood, Steam Dist.	91,978	---	91,978	76,881	---	76,881
" Sulphate	15,546	---	15,546	22,955	---	22,955
" Dest. Dist.	<u>4,734</u>	<u>---</u>	<u>4,734</u>	<u>2,859</u>	<u>---</u>	<u>2,859</u>
Total	307,173	194,915	112,258	350,192	247,497	102,695

TABLE 5b - PRODUCTION OF ROSIN (Bbls. 500 lbs. gross)

Gum	649,713	649,713	---	803,994	803,994	---
Reclaimed (Gum)	12,704	12,704	---	15,998	15,998	---
Wood, Steam Dist.	561,385	---	561,385	476,127	---	476,127
Wood Sulphate (Table 5c)	---	---	---	---	---	---
Wood Dest. Dist.	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
Total	1,223,802	662,417	561,385	1,296,119	819,992	476,127

TABLE 5c - PRODUCTION OF "SULPHATE WOOD ROSIN"

1941-42

10,293 tons liquid rosin
were produced.

1940-41

3855 tons liquid rosin from
which 267 tons of abietic
acid were produced.

TABLE 6 - PRODUCTION OF GUM TURPENTINE BY STATES

	<u>Barrels</u>	<u>Percentage</u>	<u>Barrels</u>	<u>Percentage</u>
North Carolina	1	1	1	1
South Carolina	2,057	1.05	4,867	1.97
Georgia	131,685	67.56	156,785	63.36
Florida	43,718	22.44	58,959	23.83
Alabama	12,755	6.54	20,175	8.15
Mississippi	3,425	1.76	5,364	2.13
Louisiana	1,275	0.65	1,347	0.55
Texas	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>
Total	194,915	100.0	247,497	100.0

(1) Combined with South Carolina

(2) Combined with Louisiana

UNITED STATES IMPORTS OF NAVAL STORES

(By naval stores seasons beginning April 1 and ending the following March 31)

TABLE 7 - IMPORTS, SPIRITS OF TURPENTINE

(Bbls. - 50 gals.)

<u>Shipped from</u>	<u>1941-42</u> Apr.-Sept. 6 mos. 1/	<u>1940-41</u> Apr.-Sept. 6 mos.	<u>1940-41</u> Apr.-March 12 mos.
Austria		0	0
Canada		0	0
France		0	0
Germany		0	0
Greece		0	0
Italy		0	0
Mexico		11,008	16,625
Netherlands		0	31
Norway		0	0
Portugal		0	0
Soviet Russia		0	0
Spain		0	0
Sweden		0	0
United Kingdom		0	0
Other countries		0	32
Total	7,571	11,008	16,688

TABLE 8 - IMPORTS, ROSIN

(Bbls. 500-lbs. gross)

Austria	0	0
Canada	0	0
France	0	1
Germany	0	0
Greece	0	0
Italy	0	0
Mexico	0	0
Netherlands	0	0
Norway	0	0
Portugal	0	0
Soviet Russia	0	0
Spain	0	0
Sweden	0	0
United Kingdom	0	0
Other countries	0	0
Total	1,426	1

1/ Only total figures available for 1941-42

(Source of Information - Bureau of the Census)

NOTE: As government records of imports of turpentine and rosin do not require any declaration as to whether they are gum or wood products, the available statistics in consequence show only total turpentine and total rosin imports, which are assumed to be gum naval stores.

UNITED STATES EXPORTS OF TURPENTINE

(By naval stores seasons beginning April 1 and ending the following March 31.)

TABLE 9a - TOTAL EXPORTS OF TURPENTINE

(Bbls. - 50 gal.)

<u>Destination</u>	<u>1941-42</u> Apr. - Sept. 6 mos. 1/	<u>1940-41</u> Apr.-Sept. 6 mos.	<u>1940-11</u> Apr.-March 12 mos.
United Kingdom		35,401	74,222
Germany and N. Europe		398	403
Italy and S. Europe		3,850	3,852
Argentina		1,529	2,954
Brazil		1,283	3,441
Other South America		2,026	3,508
Japan		0	0
Australia and New Zealand		4,707	7,394
Netherlands East Indies		1	16
Canada		12,744	24,758
All other Exports		5,803	10,307
Total	47,319	67,742	130,855

TABLE 10a - EXPORTS. GUM SPIRITS OF TURPENTINE

United Kingdom	29,044	60,797
Germany and N. Europe	398	402
Italy and S. Europe	572	573
Argentina	1,118	2,163
Brazil	809	2,248
Other South America	1,653	2,681
Japan	0	0
Australia and New Zealand	3,776	5,830
Netherlands East Indies	0	15
Canada	10,907	20,204
All other Exports	4,930	8,214
Total	30,179	53,207

TABLE 11a - EXPORTS. WOOD TURPENTINE

United Kingdom	6,357	13,425
Germany and N. Europe	0	1
Italy and S. Europe	3,278	3,279
Argentina	411	791
Brazil	474	1,193
Other South America	373	827
Japan	0	0
Australia and New Zealand	931	1,564
Netherlands East Indies	1	1
Canada	1,837	4,554
All other Exports	873	2,093
Total	17,140	14,535

1/ Only total figures available for 1941-42

(Source of Information - Bureau of the Census)

UNITED STATES EXPORTS OF ROSIN

(By naval stores seasons beginning April 1 and ending the following March 31)

TABLE 9b - TOTAL EXPORTS OF ROSIN ¹

(-bls. - 500 lbs. gross)

<u>Destination</u>	<u>1941-42</u> Apr.-Sept. 6 mos. 2/	<u>1940-41</u> Apr.-Sept. 6 mos.	<u>1940-41</u> Apr.-March 12 mos.
United Kingdom		98,207	122,223
Germany and N. Europe		8,132	12,649
Italy and S. Europe		12,077	12,077
Argentina		17,970	36,486
Brazil		26,734	59,924
Other South America		16,646	32,787
Japan		26,741	77,102
Australia and New Zealand		23,534	36,053
Netherlands East Indies		9,484	20,117
Canada		32,877	62,703
All other Exports		33,387	63,007
Total	260,380	305,789	535,128

TABLE 10b - EXPORTS OF GUM ROSIN

United Kingdom	56,942	71,488
Germany and N. Europe	7,178	8,994
Italy and S. Europe	9,887	9,887
Argentina	11,546	20,407
Brazil	4,434	10,513
Other South America	7,323	13,066
Japan	18,175	45,816
Australia and New Zealand	14,695	22,479
Netherlands East Indies	5,385	8,095
Canada	18,935	31,907
All other Exports	20,610	36,019
Total	139,265	278,671

TABLE 11b - EXPORTS OF WOOD ROSIN ¹

United Kingdom	41,265	50,735
Germany and N. Europe	954	3,655
Italy and S. Europe	2,190	2,190
Argentina	6,424	16,079
Brazil	22,300	49,411
Other South America	9,323	19,721
Japan	8,566	31,286
Australia and New Zealand	8,839	13,574
Netherlands East Indies	4,099	12,022
Canada	13,942	30,796
All other Exports	12,777	26,988
Total	121,115	256,457

(1) Includes product commonly referred to as "B Wood Rosin."

(2) Only total figures available for 1941-42 (Source of Information - Bureau of the Census)

TABLE 12a - REPORTED CONSUMPTION OF TURPENTINE IN UNITED STATES (Bbls. - 50 gal.)
(By naval stores seasons beginning April 1 and ending the following March 31)

	<u>1941-42</u> (Apr.-Sept.) 6 mos.			<u>1940-41</u> (Apr.-Sept.) 6 mos.		
	<u>Total</u>	<u>Gum¹</u>	<u>Wood¹</u>	<u>Total</u>	<u>Gum¹</u>	<u>Wood¹</u>
Abattoirs	0			0		
Adhesives & plastics	305			121		
Asphaltic products	0			0		
Automobiles & wagons	244			276		
Chemicals & pharmaceuticals	31,907			16,281		
Ester gum & synthetic resins	0			0		
Foundries & f'dry supplies	546			382		
Furniture	269			238		
Insecticides & disinfectants	204			205		
Linoleum & floor covering	0			30		
Matches	0			0		
Oils & Greases	145			47		
Paint, varnish & lacquer	29,090			25,888		
Paper & paper size	0			0		
Printing ink	110			86		
Railroads & shipyards	3,763			2,968		
Rubber	76			108		
Shoe polish & shoe mat'ls.	4,424			5,584		
Soap	0			7		
Other industries	<u>216</u>			<u>498</u>		
Total industrial reported	71,299	35,789	35,510	52,719	27,696	25,023
Not accounted for ²	236,009	158,259	77,750	213,467	147,215	66,252
Apparent U. S. consumption ³	307,308	194,048	113,260	266,186	174,911	91,275

(1) Separation of gum and wood turpentine consumption will be limited for the present to the total reported.

(2) Principally unreported distribution of turpentine through retailers who sell in small quantities to ultimate consumers.

(3) From Table 1a, page 1.

TABLE 12b - REPORTED CONSUMPTION OF ROSIN IN UNITED STATES (Bbls. - 500 lbs.)
(By naval stores seasons beginning April 1 and ending the following March 31)

	Season <u>1941 - 42</u> (Apr. - Sept.) 6 mos.			Season <u>1940 - 41</u> (Apr. - Sept.) 6 mos.		
	<u>Total</u>	<u>Gum¹</u>	<u>Wood¹</u>	<u>Total</u>	<u>Gum¹</u>	<u>Wood¹</u>
Abattoirs	519			317		
Adhesives & plastics	12,590			8,295		
Asphaltic products	1,008			698		
Automobiles & wagons	332			294		
Chemicals & pharmaceuticals	71,818			91,757		
Ester gum & synth. resins	116,054			61,318		
Foundries & f'dry supplies	11,719			3,854		
Furniture	4			8		
Insecticides & disinfectants	2,991			2,200		
Linoleum & floor covering	7,490			18,274		
Matches	531			2,759		
Oils & greases	35,665			14,273		
Paint, varnish & lacquer	128,605			78,755		
Paper & paper size	209,598			166,296		
Printing ink	9,024			6,460		
Railroads & shipyards	3,699			1,322		
Rubber	4,768			2,929		
Shoe polish & shoe mat'ls	6,152			3,868		
Soap	125,740			96,403		
Other industries	<u>3,569</u>			<u>2,771</u>		
Total industrial reported	752,376	464,753	287,623	562,851	290,228	272,623
Not accounted for ²	301,804	89,367	212,437	157,930	114,166	43,764
Apparent U. S. consumption ³	1,054,180	554,120	500,060	720,781	404,394	316,387

(1) Separation of gum and wood rosin consumption will be limited for this year to the total reported.

(2) Principally unreported industrial consumption of rosin and rosin for distribution through retailers who sell in small quantities to ultimate consumers.

(3) From Table 1b, page 2.

TABLE 13 - WEIGHTED AVERAGE MONTHLY AND SEASON PRICES OF GUM SPIRITS OF TURPENTINE - 1921-22 to 1941-42
(Based upon Wednesdays and Saturdays closing Savannah Prices)²

Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Average
	Cents per Gallon												
1921-22	53.17	61.83	52.62	53.06	56.55	65.15	69.04	73.44	74.14	83.86	86.07	80.92	62.62
1922-23	79.50	86.07	106.54	113.07	110.61	123.31	145.94	151.25	130.71	145.87	143.29	147.53	119.82
1923-24	145.32	105.48	94.74	88.73	88.83	91.61	83.86	88.50	86.36	94.88	95.37	95.72	95.22
1924-25	91.82	83.49	77.63	77.66	82.99	82.28	81.43	79.24	77.64	86.40	87.95	86.00	81.30
1925-26	87.39	97.39	92.48	90.08	95.29	106.25	105.56	104.79	93.77	99.72	92.69	93.81	96.66
1926-27	89.86	79.67	80.14	82.07	89.31	86.00	84.75	82.69	80.85	76.07	68.00	67.38	82.62
1927-28	60.61	56.41	51.24	50.64	52.31	49.22	46.71	44.36	49.49	55.03	54.94	54.82	51.38
1928-29	52.06	47.87	50.87	49.83	47.58	46.40	48.18	54.22	55.50	56.47	53.16	52.42	50.54
1929-30	48.78	48.90	46.83	47.11	46.63	49.74	50.82	47.85	48.13	49.42	50.12	50.67	48.28
1930-31	48.42	43.51	41.33	37.56	35.32	38.26	35.60	37.03	36.14	38.11	39.97	47.81	39.34
1931-32	50.44	49.42	50.69	39.77	31.40	31.88	31.17	35.21	33.83	34.68	34.84	40.06	40.10
1932-33	39.50	39.44	38.64	35.94	37.68	41.09	40.86	39.71	37.04	39.88	39.75	39.46	38.82
1933-34	37.88	42.47	40.39	46.39	42.83	41.97	40.81	42.14	42.07	47.44	57.00	55.00	42.72
1934-35	53.66	50.81	46.44	42.82	41.83	41.19	46.59	48.00	46.46	49.59	50.53	49.71	45.64
1935-36	47.37	47.07	44.46	42.40	38.47	40.91	45.76	44.92	43.96	45.19	44.44	39.31	45.56
1936-37	37.43	36.26	35.86	36.44	38.73	37.19	36.33	38.25	41.59	43.13	41.84	39.01	37.48
1937-38	35.97	35.83	34.07	33.44	31.94	29.93	27.28	26.92	26.14	28.18	26.47	25.42	31.36
1938-39	23.18	22.69	22.56	23.24	22.53	20.92	22.81	22.32	22.31	24.78	25.56	28.42	22.61
1939-40	24.96	23.93	24.00	24.11	23.72	26.11	27.16	25.72	27.00	30.17	32.91	31.67	25.31
1940-41	28.78	27.65	26.25	26.69 ³	28.69	30.80	34.99	38.37	37.11	42.05	38.78	39.25	30.03
1941-42	42.11	45.00	42.17	48.28	67.83	74.84							

1/ The monthly prices were obtained by averaging the Wednesday and Saturday closing prices. The season average price was obtained by multiplying each monthly price by the combined reported receipts during that month at Savannah, Jacksonville, and Pensacola and dividing the total of these figures for the season by the total receipts for that season, thereby giving the months of heavy receipts and of low receipts their proper relative value.

2/ Wednesdays and Fridays closing Savannah prices were used for December, January, and February, for 1936-37 and 1937-38. Fridays prices were used for 1938-39, 1939-40, 1940-41, and 1941-42 when there was no quoted Saturday market.

3/ To complete the table, beginning July 1, 1940, 6 cents per gallon has been added to the Savannah prices.

Sources of data: Prices, Florida inspections and monthly receipts at Savannah, Jacksonville and Pensacola are taken from the NAVAL STORES REVIEW AND JOURNAL OF TRADE, DAILY MARKET REPORTS OF THE SAVANNAH EXCHANGE, JACKSONVILLE AND PENSACOLA CHAMBERS OF COMMERCE. Economic Analysis Unit, General Crop Section, Agricultural Adjustment Administration.

TABLE 14 - WEIGHTED AVERAGE MONTHLY AND SEASON PRICES OF GUM ROSIN (280-lb. bbls.) - 1921-22 to 1941-42
(Based upon Wednesdays and Saturdays closing Savannah Prices)²

Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Average
<u>In dollars per barrel of 280 pounds gross weight</u>													
1921-22	4.00	4.42	3.87	3.78	4.00	4.39	4.34	4.42	4.47	4.21	4.22	4.10	4.20
1922-23	4.35	4.79	5.09	5.23	5.25	5.52	5.75	5.48	5.14	5.07	5.15	5.17	5.20
1923-24	4.96	4.88	4.82	4.78	4.66	4.62	4.57	4.44	4.80	4.88	4.69	4.74	4.67
1924-25	4.81	4.88	4.72	4.71	4.94	5.20	5.99	6.46	6.49	7.19	7.28	7.24	5.61
1925-26	7.52	9.01	8.78	9.15	10.22	13.02	14.33	14.22	13.05	12.09	13.34	12.66	11.11
1926-27	11.66	10.42	12.18	13.09	12.53	13.92	12.32	11.64	11.64	11.98	11.98	10.42	12.20
1927-28	9.77	9.11	8.46	8.32	8.96	8.47	7.64	6.87	7.64	8.61	8.38	8.58	8.35
1928-29	8.31	7.68	8.24	8.53	8.32	8.06	8.20	8.53	8.57	8.57	8.36	8.08	8.29
1929-30	7.50	7.39	7.31	7.49	7.44	7.87	8.16	7.62	7.34	7.48	7.45	7.22	7.54
1930-31	6.85	6.16	5.65	4.78	4.42	4.77	4.37	4.45	4.46	4.30	4.52	4.95	5.02
1931-32	4.96	5.01	5.26	3.95	3.12	3.04	2.95	3.27	3.10	3.10	3.18	3.67	3.89
1932-33	2.98	2.91	2.74	2.54	2.32	3.23	3.07	2.94	2.92	2.98	2.90	2.90	2.83
1933-34	2.95	3.54	3.53	4.09	3.83	3.91	3.86	3.92	3.90	4.24	5.04	5.06	3.88
1934-35	5.09	4.87	4.55	4.30	4.37	4.43	4.52	4.45	4.48	4.73	4.86	4.79	4.55
1935-36	4.67	4.72	4.58	4.44	4.12	4.38	4.81	4.71	4.55	4.60	4.57	4.60	4.54
1936-37	4.38	4.32	4.70	5.42	6.68	6.00	6.23	7.20	9.28	10.20	9.76	8.97	6.42
1937-38	8.07	8.30	8.15	8.00	7.98	8.03	7.35	6.21	5.55	5.92	5.38	4.73	7.35
1938-39	4.87	4.67	4.81	5.15	4.98	4.72	5.28	5.64	5.09	5.12	5.29	5.79	5.02
1939-40	5.22	5.19	5.34	5.49	5.34	5.66	5.73	5.54	5.39	5.54	5.51	5.59	5.44
1940-41	5.20	5.06	4.69	4.00	4.46	4.21	4.44	4.72	4.51	4.76	4.69	4.83	4.55
1941-42	4.76	4.69	4.83	5.41	6.00	6.12							

Note: Rosin Grades included in average prices follow: -- X, WW, WG, N, M, K, I, H, G, F, E, D, B.

(1) The monthly prices were obtained by multiplying the average of the Wednesday and Saturday prices of each grade by the number of barrels of each grade reported as inspected in Florida during that month, and dividing the total of the resulting figures by the total number of barrels inspected in Florida during that month, thereby giving the proper relative value to each grade. The season average price was obtained by multiplying each monthly price by the combined reported receipts during that month at Savannah, Jacksonville and Pensacola and dividing the total of these figures for the season by the total receipts for the season, thereby giving the months of heavy receipts and of low receipts their proper relative value.

(2) Wednesdays and Fridays closing Savannah prices were used for December, January, and February for 1936-37 and 1937-38. Fridays prices were used for 1938-39, 1939-40, 1940-41 and 1941-2 when there was no quoted Saturday market.

Sources of data: Prices, Florida inspections and monthly receipts at Savannah, Jacksonville and Pensacola are taken from the NAVAL STORES REVIEW AND JOURNAL OF TRADE, DAILY MARKET RECEIPTS OF THE S/VIN/H EXCHANGE, JACKSONVILLE AND PENSACOLA (F/NIFFS OF COMMERCE. Economic Analysis Unit, General Crops Section, Agricultural Adjustment Administration.

ADDENDA

Additional information pertaining to naval stores may be obtained as follows:

For monthly, quarterly and annual reports on imports and exports of turpentine and rosin, address: Foreign Trade Statistics, Bureau of the Census, Department of Commerce, Washington, D. C. Price ten cents per copy.

For biennial census of the production of turpentine and rosin, address: Bureau of the Census, Department of Commerce, Washington, D. C.

For information on the southern forest survey showing turpentine timber resources, address: Southern Forest Experiment Station, New Orleans, La.

For information regarding the production, distribution, consumption and stocks of turpentine and rosin, address: Bureau of Agricultural Chemistry and Engineering, Department of Agriculture, Washington, D. C.

